



**REVOCATION OF PRIOR POWERS OF ATTORNEY  
APPOINTMENT OF NEW POWERS OF ATTORNEY  
AND  
CHANGE OF CORRESPONDENCE ADDRESS**

---

in re

Applicant/Patent Owner: **SIEMENS VDO AUTOMOTIVE CORPORATION**

Application No.: 10/713,767

Filing Date: 11/14/2003

Publication No.: 2005-0105306

Publication Date: 5/19/2005

Patent No.: 6940735

Issue Date: 9/6/2005

Entitled: **Power Converter System**

---

Siemens VDO Automotive Corporation, a Delaware corporation, as assignee of the entire right, title, and interest in the patent application/patent identified above by virtue of an assignment averred per the attached Statement Under 37 CFR 3.73(b) , hereby:

- a) revokes all previous powers of attorney given in the above-identified application.
- b) appoints all Practitioners associated with the Customer Number: 028524 as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.
- c) requests change the correspondence address for the above-identified application to the address associated with the above-mentioned Customer Number.

19 July 2007

Laura M. Slenzak  
Assistant Secretary for Intellectual Property Matters  
Siemens VDO Automotive Corporation



**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: **SIEMENS VDO AUTOMOTIVE CORPORATION**

Application No.: 10/713,767

Filing Date: 11/14/2003

Publication No.: 2005-0105306

Publication Date: 5/19/2005

Patent No.: 6940735

Issue Date: 9/6/2005

Entitled: **Power Converter System**

Siemens VDO Automotive Corporation, a Delaware corporation, states that it is: the assignee of the entire right, title, and interest in the patent application/patent identified above by virtue of an assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at **Reel 019077, Frame 0840**, for which a copy thereof is attached.

As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was already submitted for recordation pursuant to 37 CFR 3.11.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

A handwritten signature in black ink, appearing to read "Laura M. Stenzak".

19 July 2007

Laura M. Stenzak  
Assistant Secretary for Intellectual Property Matters  
Siemens VDO Automotive Corporation



### Patent Assignment Details

Reel/Frame: 019077/0840

**Pages:** 7

**Recorded:** 3/28/2007

**Conveyance:** CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

**Total properties: 104**

1	Patent #:	<u>5402059</u>	Issue Dt:	3/28/1995	Application #:	8193587	Filing Dt:	2/8/1994
	Title: SWITCHING POWER SUPPLY OPERATING AT LITTLE OR NO LOAD							
2	Patent #:	<u>5469351</u>	Issue Dt:	11/21/1995	Application #:	8270967	Filing Dt:	7/5/1994
	Title: FAULT ISOLATION IN AN INDUCTION MOTOR CONTROL SYSTEM							
3	Patent #:	<u>5552977</u>	Issue Dt:	9/3/1996	Application #:	8493221	Filing Dt:	6/20/1995
	Title: THREE PHASE INVERTER CIRCUIT WITH IMPROVED TRANSITION FROM SVPWM TO SIX STEP OPERATION							
4	Patent #:	<u>5627446</u>	Issue Dt:	5/6/1997	Application #:	8498163	Filing Dt:	7/5/1995
	Title: INDUCTION MOTOR CONTROL METHOD							
5	Patent #:	<u>5619435</u>	Issue Dt:	4/8/1997	Application #:	8558950	Filing Dt:	11/13/1995
	Title: MACHINE							
6	Patent #:	<u>5739664</u>	Issue Dt:	4/14/1998	Application #:	8596846	Filing Dt:	2/5/1996
	Title: INDUCTION MOTOR DRIVE CONTROLLER							
7	Patent #:	<u>5754026</u>	Issue Dt:	5/19/1998	Application #:	8825986	Filing Dt:	4/4/1997
	Title: INDUCTION MOTOR CONTROL METHOD							
8	Patent #:	<u>5821720</u>	Issue Dt:	10/13/1998	Application #:	8846442	Filing Dt:	4/30/1997
	Title: BACKLASH ELIMINATION IN THE DRIVETRAIN OF AN ELECTRIC VEHICLE							
9	Patent #:	<u>5994859</u>	Issue Dt:	11/30/1999	Application #:	8848206	Filing Dt:	4/30/1997
	Title: TORSIONAL OSCILLATION COMPENSATION IN THE DRIVETRAIN OF A MOTOR VEHICLE							
10	Patent #:	<u>6072297</u>	Issue Dt:	6/6/2000	Application #:	8926415	Filing Dt:	9/9/1997
	Title: VIBRATION DETECTION AND CONTROL FOR A VEHICLE DRIVETRAIN							
11	Patent #:	<u>6047787</u>	Issue Dt:	4/11/2000	Application #:	9017934	Filing Dt:	2/3/1998
	Title: VOLTAGE CONTROL METHOD FOR AN ELECTRIC MOTOR CONTROL SYSTEM							
12	Patent #:	<u>5977679</u>	Issue Dt:	11/2/1999	Application #:	9034946	Filing Dt:	3/5/1998
	Title: POLE-PHASE MODULATED TOROIDAL WINDING FOR AN INDUCTION MACHINE							
13	Patent #:	<u>5905349</u>	Issue Dt:	5/18/1999	Application #:	9064237	Filing Dt:	4/23/1998
	Title: METHOD OF CONTROLLING ELECTRIC MOTOR TORQUE IN AN ELECTRIC VEHICLE							
14	Patent #:	<u>5965967</u>	Issue Dt:	10/12/1999	Application #:	9110353	Filing Dt:	7/6/1998
	Title: ROTOR FOR AN ELECTRICAL MACHINE							
15	Patent #:	<u>6246343</u>	Issue Dt:	6/12/2001	Application #:	9263303	Filing Dt:	3/5/1999
	Title: INCREMENT ENCODER FAILURE DETECTION							
16	Patent #:	<u>6122588</u>	Issue Dt:	9/19/2000	Application #:	9420465	Filing Dt:	10/19/1999
	Title: VEHICLE SPEED CONTROL WITH CONTINUOUSLY VARIABLE BRAKING TORQUE							
17	Patent #:	<u>6307275</u>	Issue Dt:	10/23/2001	Application #:	9495443	Filing Dt:	1/31/2000
	Title: COUPLED TO AN INDUSTRIAL TURBO ENGINE							
18	Patent #:	<u>6377019</u>	Issue Dt:	4/23/2002	Application #:	9499366	Filing Dt:	2/10/2000
	Title: PEAK TORQUE PER AMPERE METHOD FOR INDUCTION MOTOR VECTOR CONTROL							



United States Patent and Trademark Office

### Patent Assignment Details

**NOTE: Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.**

Reel/Frame: 019077/0840

Pages: 7

Recorded: 3/28/2007

Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

Total properties: 104

19	Patent #:	<u>6239575</u>	Issue Dt:	5/29/2001	Application #:	9502869	Filing Dt:	2/11/2000
	Title: Induction motor power/torque clamping for electric vehicle performance							
20	Patent #:	<u>6330143</u>	Issue Dt:	12/11/2001	Application #:	9512480	Filing Dt:	2/23/2000
	Title: Automatic over-current protection of transistors							
21	Patent #:	<u>6169679</u>	Issue Dt:	1/2/2001	Application #:	9532796	Filing Dt:	3/21/2000
	Title: Method and system for synchronizing the phase angles of parallel connected inverters							
22	Patent #:	<u>6291960</u>	Issue Dt:	9/18/2001	Application #:	9533296	Filing Dt:	3/22/2000
	Title: Pulse width modulated motor control system and method for reducing noise vibration and harshness							
23	Patent #:	<u>6327524</u>	Issue Dt:	12/4/2001	Application #:	9561546	Filing Dt:	4/28/2000
	Title: System for high efficiency motor control							
24	Patent #:	<u>6366049</u>	Issue Dt:	4/2/2002	Application #:	9567592	Filing Dt:	5/10/2000
	Title: Motor starter and speed controller system							
25	Patent #:	<u>6178103</u>	Issue Dt:	1/23/2001	Application #:	9567965	Filing Dt:	5/10/2000
	Title: Method and circuit for synchronizing parallel voltage source inverters							
26	Patent #:	<u>6212085</u>	Issue Dt:	4/3/2001	Application #:	9593613	Filing Dt:	6/13/2000
	Title: Integrated dual voltage sourced inverter							
27	Patent #:	<u>6362988</u>	Issue Dt:	3/26/2002	Application #:	9606865	Filing Dt:	6/29/2000
	Title: OPERATION WITH A GRID							
28	Patent #:	<u>6239997</u>	Issue Dt:	5/29/2001	Application #:	9653478	Filing Dt:	9/1/2000
	Title: Method and system for connecting and synchronizing a supplemental power source to a power grid							
29	Patent #:	<u>6388419</u>	Issue Dt:	5/14/2002	Application #:	9653654	Filing Dt:	9/1/2000
	Title: Motor control system							
30	Patent #:	<u>6572416</u>	Issue Dt:	6/3/2003	Application #:	9682976	Filing Dt:	11/5/2001
	Publication #:	<u>US20030087560</u>	Pub Dt:	5/8/2003				
	Title: THREE-PHASE CONNECTOR FOR ELECTRIC VEHICLE DRIVETRAIN							
31	Patent #:	<u>6646837</u>	Issue Dt:	11/11/2003	Application #:	9682994	Filing Dt:	11/6/2001
	Publication #:	<u>US20020190580</u>	Pub Dt:	12/19/2002				
	Title: ACTIVE GROUND CURRENT REDUCTION DEVICE							
32	Patent #:	<u>6744158</u>	Issue Dt:	6/1/2004	Application #:	9683018	Filing Dt:	11/8/2001
	Publication #:	<u>US20020089244</u>	Pub Dt:	7/11/2002				
	Title: ELECTRIC MACHINE WITH COOLING RINGS							
33	Patent #:	<u>6631960</u>	Issue Dt:	10/14/2003	Application #:	9683171	Filing Dt:	11/28/2001
	Publication #:	<u>US20030132664</u>	Pub Dt:	7/17/2003				
	Title: SERIES REGENERATIVE BRAKING TORQUE CONTROL SYSTEMS AND METHODS							
34	Patent #:	<u>6496393</u>	Issue Dt:	12/17/2002	Application #:	9683172	Filing Dt:	11/28/2001
	Title: INTEGRATED TRACTION INVERTER MODULE AND BI-DIRECTIONAL DC/DC CONVERTER							
35	Patent #:	<u>6465977</u>	Issue Dt:	10/15/2002	Application #:	9683176	Filing Dt:	11/29/2001



United States Patent and Trademark Office

### Patent Assignment Details

**NOTE: Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.**

Reel/Frame: 019077/0840

Pages: 7

Recorded: 3/28/2007

Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

Total Properties: 104

Title: SYSTEM AND METHOD FOR CONTROLLING TORQUE IN AN ELECTRICAL MACHINE

- |    |   |                      |           |            |                |          |            |            |
|----|---|----------------------|-----------|------------|----------------|----------|------------|------------|
| 36 | Patent #:   | <u>6630809</u>       | Issue Dt: | 10/7/2003  | Application #: | 9683180  | Filing Dt: | 11/29/2001 |
|    | Publication #:  | <u>US20030098665</u> | Pub Dt:   | 5/29/2003  |                |          |            |            |
|    | Title: SYSTEM AND METHOD FOR INDUCTION MOTOR CONTROL  |                      |           |            |                |          |            |            |
| 37 | Patent #:   | <u>6639334</u>       | Issue Dt: | 10/28/2003 | Application #: | 9683199  | Filing Dt: | 11/30/2001 |
|    | Publication #:  | <u>US20030102728</u> | Pub Dt:   | 6/5/2003   |                |          |            |            |
|    | Title: JET IMPINGEMENT COOLING OF ELECTRIC MOTOR END-WINDINGS                                 |                      |           |            |                |          |            |            |
| 38 | Patent #:   | <u>6452352</u>       | Issue Dt: | 9/17/2002  | Application #: | 9705236  | Filing Dt: | 11/2/2000  |
|    | Title: CURRENT GENERATING SYSTEM  |                      |           |            |                |          |            |            |
| 39 | Patent #:   | <u>6445095</u>       | Issue Dt: | 9/3/2002   | Application #: | 9758871  | Filing Dt: | 1/11/2001  |
|    | Publication #:  | <u>US20020089242</u> | Pub Dt:   | 7/11/2002  |                |          |            |            |
|    | Title: ELECTRIC MACHINE WITH LAMINATED COOLING RINGS  |                      |           |            |                |          |            |            |
| 40 | Patent #:   | <u>6636429</u>       | Issue Dt: | 10/21/2003 | Application #: | 9957001  | Filing Dt: | 9/20/2001  |
|    | Publication #:  | <u>US20020126465</u> | Pub Dt:   | 9/12/2002  |                |          |            |            |
|    | Title: LEVEL  |                      |           |            |                |          |            |            |
| 41 | Patent #:   | <u>6793502</u>       | Issue Dt: | 9/21/2004  | Application #: | 9957047  | Filing Dt: | 9/20/2001  |
|    | Publication #:  | <u>US20020111050</u> | Pub Dt:   | 8/15/2002  |                |          |            |            |
|    | Title: PRESS (NON-SOLDERED) CONTACTS FOR HIGH CURRENT ELECTRICAL CONNECTIONS IN POWER MODULES |                      |           |            |                |          |            |            |
| 42 | Patent #:   | <u>6845017</u>       | Issue Dt: | 1/18/2005  | Application #: | 9957568  | Filing Dt: | 9/20/2001  |
|    | Publication #:  | <u>US20020118560</u> | Pub Dt:   | 8/29/2002  |                |          |            |            |
|    | Title: SUBSTRATE-LEVEL DC BUS DESIGN TO REDUCE MODULE INDUCTANCE                              |                      |           |            |                |          |            |            |
| 43 | Patent #:   | <u>6707270</u>       | Issue Dt: | 3/16/2004  | Application #: | 10010307 | Filing Dt: | 11/13/2001 |
|    | Publication #:  | <u>US20030090226</u> | Pub Dt:   | 5/15/2003  |                |          |            |            |
|    | Title: SYSTEM AND METHOD FOR INDUCTION MOTOR CONTROL  |                      |           |            |                |          |            |            |
| 44 | Patent #:   | <u>7012810</u>       | Issue Dt: | 3/14/2006  | Application #: | 10109555 | Filing Dt: | 3/27/2002  |
|    | Publication #:  | <u>US20020167828</u> | Pub Dt:   | 11/14/2002 |                |          |            |            |
|    | Title: LEADFRAME-BASED MODULE DC BUS DESIGN TO REDUCE MODULE INDUCTANCE                       |                      |           |            |                |          |            |            |
| 45 | Patent #:   | <u>6919650</u>       | Issue Dt: | 7/19/2005  | Application #: | 10159603 | Filing Dt: | 5/31/2002  |
|    | Publication #:  | <u>US20030222507</u> | Pub Dt:   | 12/4/2003  |                |          |            |            |
|    | Title: HYBRID SYNCHRONIZATION PHASE ANGLE GENERATION METHOD                                   |                      |           |            |                |          |            |            |
| 46 | Patent #:   | <u>6700342</u>       | Issue Dt: | 3/2/2004   | Application #: | 10208251 | Filing Dt: | 7/29/2002  |
|    | Publication #:  | <u>US20030030395</u> | Pub Dt:   | 2/13/2003  |                |          |            |            |
|    | Title: LIMITED POSITION INFORMATION   |                      |           |            |                |          |            |            |
| 47 | Patent #:   | <u>6815925</u>       | Issue Dt: | 11/9/2004  | Application #: | 10293911 | Filing Dt: | 11/12/2002 |
|    | Publication #:  | <u>US20040090205</u> | Pub Dt:   | 5/13/2004  |                |          |            |            |
|    | Title: SYSTEMS AND METHODS FOR ELECTRIC MOTOR CONTROL   |                      |           |            |                |          |            |            |
| 48 | Patent #:   | <u>6778411</u>       | Issue Dt: | 8/17/2004  | Application #: | 10298473 | Filing Dt: | 11/18/2002 |
|    | Publication #:  | <u>US20040095786</u> | Pub Dt:   | 5/20/2004  |                |          |            |            |
|    | Title: STARTUP APPARATUS AND METHOD FOR POWER CONVERTERS                                      |                      |           |            |                |          |            |            |



United States Patent and Trademark Office

### Patent Assignment Details

**NOTE: Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.**

Reel/Frame: 019077/0840

Pages: 7

Recorded: 3/28/2007

Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

Total properties: 104

49	Patent #:	<u>6714424</u>	Issue Dt:	3/30/2004	Application #:	10306833	Filing Dt:	11/27/2002
	Publication #:	<u>US20040037097</u>	Pub Dt:	2/26/2004				
	Title: DEAD-TIME COMPENSATION WITH NARROW PULSE ELIMINATION IN SOLID-STATE SWITCH DEVICES							
50	Patent #:	<u>6861835</u>	Issue Dt:	3/1/2005	Application #:	10309793	Filing Dt:	12/3/2002
	Publication #:	<u>US20040104718</u>	Pub Dt:	6/3/2004				
	Title: METHOD AND SYSTEM FOR NON-INVASIVE POWER TRANSISTOR DIE VOLTAGE MEASUREMENT							
51	Patent #:	<u>7106564</u>	Issue Dt:	9/12/2006	Application #:	10328934	Filing Dt:	12/23/2002
	Publication #:	<u>US20030147191</u>	Pub Dt:	8/7/2003				
	Title: DEVICES AND METHODS FOR DETECTING ISLANDING OPERATION OF A STATIC POWER SOURCE							
52	Patent #:	<u>7190145</u>	Issue Dt:	3/13/2007	Application #:	10334198	Filing Dt:	12/30/2002
	Publication #:	<u>US20030164692</u>	Pub Dt:	9/4/2003				
	Title: METHOD AND APPARATUS FOR IMPROVING SPEED MEASUREMENT QUALITY IN MULTI-POLE MACHINES							
53	Patent #:	<u>6914354</u>	Issue Dt:	7/5/2005	Application #:	10334820	Filing Dt:	12/30/2002
	Publication #:	<u>US20030173840</u>	Pub Dt:	9/18/2003				
	Title: ASSEMBLY AND METHOD FOR DIRECT COOLING OF MOTOR END-WINDING							
54	Patent #:	<u>6853940</u>	Issue Dt:	2/8/2005	Application #:	10345871	Filing Dt:	1/15/2003
	Publication #:	<u>US20030165036</u>	Pub Dt:	9/4/2003				
	Title: ANTI-ISLANDING DEVICE AND METHOD FOR GRID CONNECTED INVERTERS USING RANDOM NOISE INJECTION							
55	Patent #:	<u>6844701</u>	Issue Dt:	1/18/2005	Application #:	10345872	Filing Dt:	1/15/2003
	Publication #:	<u>US20030164028</u>	Pub Dt:	9/4/2003				
	Title: OVERMODULATION SYSTEMS AND METHODS FOR INDUCTION MOTOR CONTROL							
56	Patent #:	<u>6937483</u>	Issue Dt:	8/30/2005	Application #:	10345894	Filing Dt:	1/15/2003
	Publication #:	<u>US20030198064</u>	Pub Dt:	10/23/2003				
	Title: DEVICE AND METHOD OF COMMUTATION CONTROL FOR AN ISOLATED BOOST CONVERTER							
57	Patent #:	<u>6843749</u>	Issue Dt:	1/18/2005	Application #:	10346554	Filing Dt:	1/16/2003
	Publication #:	<u>US20030155165</u>	Pub Dt:	8/21/2003				
	Title: APPARATUS AND METHOD TO ACHIEVE MULTIPLE EFFECTIVE RATIOS FROM A FIXED RATIO TRANSAXLE							
58	Patent #:	<u>7014928</u>	Issue Dt:	3/21/2006	Application #:	10346561	Filing Dt:	1/16/2003
	Publication #:	<u>US20030157379</u>	Pub Dt:	8/21/2003				
	Title: DIRECT CURRENT/DIRECT CURRENT CONVERTER FOR A FUEL CELL SYSTEM							
59	Patent #:	<u>6894450</u>	Issue Dt:	5/17/2005	Application #:	10346724	Filing Dt:	1/16/2003
	Publication #:	<u>US20030214266</u>	Pub Dt:	11/20/2003				
	Title: CIRCUIT CONFIGURATION FOR PERMANENT MAGNET SYNCHRONOUS MOTOR CONTROL							
60	Patent #:	<u>7012822</u>	Issue Dt:	3/14/2006	Application #:	10360832	Filing Dt:	2/7/2003
	Publication #:	<u>US20030214826</u>	Pub Dt:	11/20/2003				
	Title: INTEGRATED TRACTION INVERTER MODULE AND DC/DC CONVERTER							
61	Patent #:	<u>6890218</u>	Issue Dt:	5/10/2005	Application #:	10443646	Filing Dt:	5/21/2003
	Publication #:	<u>US20040033729</u>	Pub Dt:	2/19/2004				
	Title: THREE-PHASE CONNECTOR FOR ELECTRIC VEHICLE DRIVETRAIN							



United States Patent and Trademark Office

### Patent Assignment Details

**NOTE: Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.**

Reel/Frame: 019077/0840

Pages: 7

Recorded: 3/28/2007

Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

Total properties: 104

62	Patent #:	<u>6927988</u>	Issue Dt:	8/9/2005	Application #:	10447708	Filing Dt:	5/28/2003
	Publication #:	<u>US20040034508</u>	Pub Dt:	2/19/2004				
	Title:	CONVERTER CIRCUITS						
63	Patent #:	<u>6936991</u>	Issue Dt:	8/30/2005	Application #:	10449824	Filing Dt:	5/30/2003
	Publication #:	<u>US20040036434</u>	Pub Dt:	2/26/2004				
	Title:	METHOD AND APPARATUS FOR MOTOR CONTROL						
64	Patent #:	<u>6845020</u>	Issue Dt:	1/18/2005	Application #:	10453920	Filing Dt:	6/2/2003
	Publication #:	<u>US20040027839</u>	Pub Dt:	2/12/2004				
	Title:	POWER CONVERTER SYSTEM						
65	Patent #:	<u>6867987</u>	Issue Dt:	3/15/2005	Application #:	10461933	Filing Dt:	6/13/2003
	Publication #:	<u>US20040252531</u>	Pub Dt:	12/16/2004				
	Title:	MULTILEVEL INVERTER CONTROL SCHEMES						
66	Patent #:	<u>6900643</u>	Issue Dt:	5/31/2005	Application #:	10637754	Filing Dt:	8/6/2003
	Publication #:	<u>US20050030045</u>	Pub Dt:	2/10/2005				
	Title:	RIDE THROUGH IN ELECTRONIC POWER CONVERTERS						
67	Patent #:	<u>6906404</u>	Issue Dt:	6/14/2005	Application #:	10642391	Filing Dt:	8/14/2003
	Publication #:	<u>US20040227231</u>	Pub Dt:	11/18/2004				
	Title:	POWER MODULE WITH VOLTAGE OVERSHOOT LIMITING						
68	Patent #:	<u>6987670</u>	Issue Dt:	1/17/2006	Application #:	10642424	Filing Dt:	8/14/2003
	Publication #:	<u>US20040228094</u>	Pub Dt:	11/18/2004				
	Title:	DUAL POWER MODULE POWER SYSTEM ARCHITECTURE						
69	Patent #:	<u>7058755</u>	Issue Dt:	6/6/2006	Application #:	10658124	Filing Dt:	9/9/2003
	Publication #:	<u>US20050055496</u>	Pub Dt:	3/10/2005				
	Title:	EEPROM EMULATION IN FLASH MEMORY						
70	Patent #:	NONE	Issue Dt:		Application #:	10658804	Filing Dt:	9/9/2003
	Publication #:	<u>US20060274561</u>	Pub Dt:	12/7/2006				
	Title:	Tri-level inverter						
71	Patent #:	NONE	Issue Dt:		Application #:	10664808	Filing Dt:	9/17/2003
	Publication #:	<u>US20040230847</u>	Pub Dt:	11/18/2004				
	Title:	Power converter architecture employing at least one capacitor across a DC bus						
72	Patent #:	<u>7019996</u>	Issue Dt:	3/28/2006	Application #:	10688834	Filing Dt:	10/16/2003
	Publication #:	<u>US20050083714</u>	Pub Dt:	4/21/2005				
	Title:	POWER CONVERTER EMPLOYING A PLANAR TRANSFORMER						
73	Patent #:	NONE	Issue Dt:		Application #:	10713552	Filing Dt:	11/14/2003
	Publication #:	<u>US20050105229</u>	Pub Dt:	5/19/2005				
	Title:	Two-level protection for uninterrupted power supply						
74	Patent #:	<u>6940735</u>	Issue Dt:	9/6/2005	Application #:	10713767	Filing Dt:	11/14/2003
	Publication #:	<u>US20050105306</u>	Pub Dt:	5/19/2005				
	Title:	POWER CONVERTER SYSTEM						



United States Patent and Trademark Office

### Patent Assignment Details

**NOTE: Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.**

Reel/Frame: 019077/0840

Pages: 7

Recorded: 3/28/2007

Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

Total properties: 104

88	Patent #:	<u>7046535</u>	Issue Dt:	5/16/2006	Application #:	11003542	Filing Dt:	12/3/2004
	Publication #:	<u>US20050152100</u>	Pub Dt:	7/14/2005				
	Title: ARCHITECTURE FOR POWER MODULES SUCH AS POWER INVERTERS							
89	Patent #:	NONE	Issue Dt:		Application #:	11010560	Filing Dt:	12/13/2004
	Publication #:	<u>US20050152101</u>	Pub Dt:	7/14/2005				
	Title: Architecture for power modules such as power inverters.							
90	Patent #:	NONE	Issue Dt:		Application #:	11010561	Filing Dt:	12/13/2004
	Publication #:	<u>US20050162875</u>	Pub Dt:	7/28/2005				
	Title: Architecture for power modules such as power inverters							
91	Patent #:	NONE	Issue Dt:		Application #:	11010950	Filing Dt:	12/13/2004
	Publication #:	<u>US20060007721</u>	Pub Dt:	1/12/2006				
	Title: Architecture for power modules such as power inverters							
92	Patent #:	NONE	Issue Dt:		Application #:	11095035	Filing Dt:	3/30/2005
	Publication #:	<u>US20050253543</u>	Pub Dt:	11/17/2005				
	Title: Method, apparatus and article for vibration compensation in electric drivetrains							
93	Patent #:	NONE	Issue Dt:		Application #:	11096236	Filing Dt:	3/30/2005
	Publication #:	<u>US20050254273</u>	Pub Dt:	11/17/2005				
	Title: Method, apparatus and article for bi-directional DC/DC power conversion							
94	Patent #:	NONE	Issue Dt:		Application #:	11192321	Filing Dt:	7/28/2005
	Publication #:	<u>US20060022541</u>	Pub Dt:	2/2/2006				
	Title: Rotor hub and assembly for a permanent magnet power electric machine							
95	Patent #:	<u>7187558</u>	Issue Dt:	3/6/2007	Application #:	11245723	Filing Dt:	10/6/2005
	Publication #:	<u>US20060028806</u>	Pub Dt:	2/9/2006				
	Title: LEADFRAME-BASED MODULE DC BUS DESIGN TO REDUCE MODULE INDUCTANCE							
96	Patent #:	NONE	Issue Dt:		Application #:	11250180	Filing Dt:	10/12/2005
	Publication #:	<u>US20070080655</u>	Pub Dt:	4/12/2007				
	Title: Method, apparatus and article for detecting rotor position							
97	Patent #:	NONE	Issue Dt:		Application #:	11255162	Filing Dt:	10/20/2005
	Publication #:	<u>US20060152085</u>	Pub Dt:	7/13/2006				
	Title: Power system method and apparatus							
98	Patent #:	NONE	Issue Dt:		Application #:	11262519	Filing Dt:	10/27/2005
	Publication #:	<u>US20070097569</u>	Pub Dt:	5/3/2007				
	Title: System and method of over voltage control for a power system							
99	Patent #:	NONE	Issue Dt:		Application #:	11282301	Filing Dt:	11/18/2005
	Publication #:	<u>US20070114954</u>	Pub Dt:	5/24/2007				
	Title: System and method of commonly controlling power converters							
100	Patent #:	<u>7193860</u>	Issue Dt:	3/20/2007	Application #:	11292870	Filing Dt:	12/2/2005
	Publication #:	<u>US20060082983</u>	Pub Dt:	4/20/2006				
	Title: LEADFRAME-BASED MODULE DC BUS DESIGN TO REDUCE MODULE INDUCTANCE							





United States Patent and Trademark Office

### Patent Assignment Details

**NOTE: Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.**

Reel/Frame: 019077/0840

Recorded: 3/28/2007

Pages: 7

Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

**Total properties: 104**

101	Patent #: NONE Publication #: <u>US20070147097</u> Title: house keeping power supply	Issue Dt: Pub Dt: 6/28/2007	Application #: 11317658 Filing Dt: 12/22/2005
102	Patent #: NONE Publication #: <u>US20060099463</u> Title: Direct current/direct current converter for a fuel cell system	Issue Dt: Pub Dt: 5/11/2006	Application #: 11318166 Filing Dt: 12/23/2005
103	Patent #: NONE Publication #: <u>US20070012492</u> Title: Power generation system suitable for hybrid electric vehicles	Issue Dt: Pub Dt: 1/18/2007	Application #: 11472486 Filing Dt: 6/20/2006
104	Patent #: NONE Publication #: <u>US20070016340</u> Title: Controller method, apparatus and article suitable for electric drive	Issue Dt: Pub Dt: 1/18/2007	Application #: 11480311 Filing Dt: 6/29/2006

**Assignor**

1 BALLARD POWER SYSTEMS CORPORATION

**Assignee**

1 SIEMENS VDO AUTOMOTIVE CORPORATION  
2400 EXECUTIVE HILLS BLVD.  
AUBURN HILLS, MICHIGAN 48326-2980

**Correspondence name and address**

ELSA KELLER  
SIEMENS CORPORATION INTELLECTUAL ET AL  
170 WOOD AVENUE SOUTH  
ISELIN, NJ 08830

Search Results as of: 07/10/2007 02:11 PM

If you have any comments or questions concerning the data displayed, contact PRD / Assignments at 571-272-3350 v.2.0.1

Web interface last modified: April 20, 2007 v.2.0.1